

## ABSTRACT

Within the United States, telephony signaling is transported in-band to the telephony voice sample by "robbing" single bit locations within the stream. When transporting such digital signals transparently over digital subscriber line (DSL) channels, the signaling bits require the 64 kbit/sec channel be open while no call is connected in order to signal the line state. Described herein is a framer and a technique that allows a reduced number of bits to pass through the DSL link while in the on-hook condition in order to signal the line state without wasting DSL bandwidth.

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